

SUPPLEMENTARY TABLE. Keyword syndrome descriptions with free-text reason for visit (chief complaint) search terms and diagnosis codes— National Syndromic Surveillance Program

Definition	Chief Complaint Search Terms	Diagnosis Codes
Mental Health Condition Definitions*		
CDC (Overall) Mental Health (Conditions) v1	<p>Also includes chief complaint terms from the specific MHCs listed below, as well as the following:</p> <p>Grief; Grieve; Bereave; Psych; Mental health; Mental evaluation; Mental problem; Mentally; Mental illness; Reactive attachment; Auditory hallucination; Visual hallucination; Hearing voice; Evaluation hallucination; History of hallucination; Hallucinations patient; Hallucinations unspecified; Seeing thing; Delusion; Paranoia; Trichotillomania; Dissociative disorder; Dissociative conversion; Dissociative identity; Dissociative and conversion; Dissociative tendency; Dissociative episode; Dissociative conversion; Dissociative behavior; Dissociative amnesia; Dissociative attentive; Experiencing dissociation; Dissociative (when used with depress, depression, psych, dysthymic, anxiety, anxious, traumatic stress, PTSD, adjustment disorder, mental, attention deficit, bipolar, schizophrenia, schizoaffective, schizotypal)</p>	<p>Also includes ICD-10-CM, ICD-9-CM, SNOMED codes from the MHCs listed below, as well as the following:</p> <p>296.90; 296.99; 297.0; 297.1; 297.2; 297.3; 297.8; 297.9; 298.0; 298.1; 298.2; 298.3; 298.4; 298.8; 298.9; 300.10; 300.11; 300.12; 300.13; 399.14; 300.15; 300.81; 300.82; 300.89; 300.7; 307.80; 307.89; 300.9; 648.40, 648.41, 648.42, 648.43, 648.44; V62.82; F22; F23; F28; F29; F39; F44; F45; F48; F53.1; F54; F63.3; F93.8; F93.9; F94; F98.9; F99; Z63.4; 413307004; 74732009; 231538003; 268664001; 48500005; 191667009; 41526007; 18193002; 224965009; 74506000</p>
CDC Anxiety Disorders v1	Anxiety; Anxious; Panic; Phobia	300.00; 300.01; 300.02; 300.09; 300.20; 300.21; 300.22; 300.23; 300.29; 313.0; 309.24; 309.28; F40; F41; F43.22; F43.23; F93.0; 197480006; 126943008; 21897009; 69479009; 109006; 61387006; 70997004; 191709001
CDC Depressive Disorders v1	Depression; Dysthymic; Dysthymia; Mood disorder; Mood disturbance	296.20; 296.21; 296.22; 296.23; 296.24; 296.25; 296.30; 296.31; 296.32; 296.33; 296.34; 296.35; 300.4; 309.0; 309.1; 296.90; 296.99; 309.28; F32 (except F32.5); F33 (except F33.42); F34.1; F34.9; F43.21; F43.23; O90.6; 35489007; 310497006; 370143000; 712823008; 57194009
CDC Attention-Deficit/Hyperactivity Disorders v1	Attention deficit; Hyperactivity; Attention problems	314.00, 314.01; 314.9; 314.2; F90 (include all in this series); 406506008; 35253001
CDC Trauma and Stressor-related Disorders v1	Traumatic stress; PTSD; Adjustment disorder; Reaction to acute stress; Acute stress reaction; Acute stress crisis; Acute stress eval; Eval acute stress; Acute stress behavior; Behavior acute stress; Behavior acute stress; Reaction to severe stress; Severe stress reaction; Severe stress crisis	308.0; 308.1; 308.2; 308.3; 308.4; 308.9; 309.81; 309.89; 309.9; 309.0; 309.1; 309.24; 309.28; 309.29; 309.3; 309.4; F43; 67195008; 47505003; 17226007; 57194009; 271952001
CDC Disruptive Behavioral and Impulse-Control v1	Conduct disorder; Oppositional defiant; Antisocial personality; Disturbance of conduct; Impulse control disorder; Explosive disorder	309.3; 309.4; 312.00; 312.01; 312.02; 312.03; 312.10; 312.11; 312.12; 312.13; 312.20, 312.21; 312.22; 312.23; 312.4; 312.81; 312.82; 312.89; 312.9; 312.30; 312.31; 312.39; 313.81; 314.2; 301.7; F43.24; F43.25; F91.0; F91.1; F91.2; F91.3; F91.8; F91.9; F63.81; F63.1; F63.2;

		F63.9; F63.0; F63.89; F60.2; 54319003; 18941000; 430909002; 26665006
CDC Bipolar Disorders v1	Bipolar; Manic; Cyclothymic; Mania; Hypomania; Hypermania	296.00; 296.01; 296.02; 296.03; 296.04; 296.05; 296.40; 296.41; 296.42; 296.43; 296.44; 296.45; 296.50; 296.51; 296.52; 296.53; 296.54; 296.55; 296.60; 296.61; 296.62; 296.63; 296.64; 296.65; 296.7; 296.80; 296.81; 296.82; 296.89; F30.1; F30.2; F30.3; F30.8; F30.9; F31.0; F31.1; F31.2; F31.3; F31.4; F31.5; F31.6; F31.7 (only include: F31.70, F31.71, F31.73, F31.75, F31.77); F31.8; F31.9; F34.0; 191627008; 371596008; 83225003; 231494001; 284513006; 268619003
CDC Eating Disorders v1	Pica; Bulimia; Binge eating; Binge-eating; Eating disorder; Rumination disorder; Binging or purging; Binging and purging; Anorexia nervosa; Anorexic; Being treated for anorexia; Treatment for anorexia; Anorexia (include only when paired with weight loss, loss of weight, or eating disorder); Anorexia history; History of anorexia; History anorexia; Mental anorexia; Mental (when used with anorexia); Psych (when used with anorexia)	307.1; 307.50; 307.51; 307.52; 307.53; 307.54; 307.59; F50.00; F50.01; F50.02; F50.2; F50.8; F50.82; F50.89; F50.9; F98.21; F98.29; F98.3; 72366004; 56882008; 7800400; 32721004
CDC Tic Disorders v1	Neurological tic; Tic disorder; Behavioral tic; Facial tic; Face tic; Tic like phenomenon; Verbal tic; Motor tic	307.20; 307.21; 307.22; 307.23; F95; G25.69; 568005; 5158005
CDC Obsessive-Compulsive Disorders v1	Obsessive compulsive; Compulsive disorder	300.3; F42; 191736004

Suicide-Related Behavior Definitions†

Definition	Chief Complaint Search Terms	Diagnosis Codes
SDC Suicide-Related (Behaviors) v1	<p>Included visits mentioning the following terms: Suicide (including abbreviations); Suicidal ideation (including abbreviations); Self harm (including variations for "harm" such as hurt and hang, inflict, kill, laceration, mutilate, shoot, stab, ideation, and cut); "want" in any combination with "die"; "attempt" in any combination with "overdose" (including abbreviations); "life" in any combination with "end"; end it; intentional</p> <p>Excluded chief complaints: Unintentional; End of life; End of battery; Denies or denied self harm; No self harm; accident; Not suicide (including abbreviations); Homicide (including abbreviations); Denied SI (including abbreviations); Denied current SI (including abbreviations); No SI (including abbreviations); Denied current suicide (including abbreviations); Denied any suicide (including abbreviations)</p>	<p>Codes limited to intentional injuries and initial encounters only</p> <p>E950-E959; R45.851; T14.91; X71-X79; X80-X83; T36.0X2, T36.1X2, T36.2X2, T36.3X2, T36.4X2, T36.5X2, T36.6X2, T36.7X2, T36.8X2, T37.0X2, T37.1X2, T37.2X2, T37.3X2, T37.4X2, T37.5X2, T37.8X2, T37.92, T38.0X2, T38.1X2, T38.2X2, T38.3X2, T38.4X2, T38.5X2, T38.6X2, T38.7X2, T38.802, T38.812, T38.892, T38.902, T38.992, T39.012, T39.092, T39.1X2, T39.2X2, T39.312, T39.392, T39.4X2, T39.8X2, T39.92, T40.0X2, T40.1X2, T40.2X2, T40.3X2, T40.4X2, T40.5X2, T40.602, T40.692, T40.7X2, T40.8X2, T40.902, T40.992, T41.0X2, T41.1X2, T41.202, T41.292, T41.3X2, T41.42, T41.5X2, T42.0X2, T42.1X2, T42.2X2, T42.3X2, T42.4X2, T42.5X2, T42.6X2, T42.72, T42.8X2, T43.012, T43.022, T43.1X2, T43.202, T43.212, T43.222, T43.292, T43.3X2, T43.4X2, T43.502, T43.592, T43.602, T43.612, T43.622, T43.632, T43.642, T43.692, T43.8X2, T43.92, T44.0X2, T44.1X2, T44.2X2, T44.3X2, T44.4X2, T44.5X2, T44.6X2, T44.7X2, T44.8X2, T44.902, T44.992, T45.0X2, T45.1X2, T45.2X2, T45.3X2, T45.4X2, T45.512, T45.522, T45.602, T45.612, T45.622, T45.692, T45.7X2,</p>

		<p>T45.8X2, T45.92, T46.0X2, T46.1X2, T46.2X2, T46.3X2, T46.4X2, T46.5X2, T46.6X2, T46.7X2, T46.8X2, T46.902, T46.992, T47.0X2, T47.1X2, T47.2X2, T47.3X2, T47.4X2, T47.5X2, T47.6X2, T47.7X2, T47.8X2, T47.92, T48.0X2, T48.1X2, T48.202, T48.292, T48.3X2, T48.4X2, T48.5X2, T48.6X2, T48.902, T48.992, T49.0X2, T49.1X2, T49.2X2, T49.3X2, T49.4X2, T49.5X2, T49.6X2, T49.7X2, T49.8X2, T49.92, T50.1X2, T50.2X2, T50.3X2, T50.4X2, T50.5X2, T50.6X2, T50.7X2, T50.8X2, T50.A12, T50.A22, T50.A92, T50.B12, T50.B92, T50.Z12, T50.Z92, T50.902, T50.992, T51.0X2, T51.1X2, T51.2X2, T51.3X2, T51.8X2, T51.92, T52.0X2, T52.1X2, T52.2X2, T52.3X2, T52.4X2, T52.8X2, T52.92, T53.0X2, T53.1X2, T53.2X2, T53.3X2, T53.4X2, T53.5X2, T53.6X2, T53.7X2, T53.92, T54.0X2, T54.1X2, T54.2X2, T54.3X2, T54.92, T55.0X2, T55.1X2, T56.0X2, T56.1X2, T56.2X2, T56.3X2, T56.4X2, T56.5X2, T56.6X2, T56.7X2, T56.812, T56.892, T56.92, T57.0X2, T57.1X2, T57.2X2, T57.3X2, T57.8X2, T57.92, T58.02, T58.12, T58.2X2, T58.8X2, T58.92, T59.0X2, T59.1X2, T59.2X2, T59.3X2, T59.4X2, T59.5X2, T59.6X2, T59.7X2, T59.812, T59.892, T59.92, T60.0X2, T60.1X2, T60.2X2, T60.3X2, T60.4X2, T60.8X2, T60.92, T61.02, T61.12, T61.772, T61.782, T61.8X2, T61.92, T62.0X2, T62.1X2, T62.2X2, T62.8X2, T62.92, T63.002, T63.012, T63.022, T63.032, T63.042, T63.062, T63.072, T63.082, T63.092, T63.112, T63.122, T63.192, T63.2X2, T63.302, T63.312, T63.322, T63.332, T63.392, T63.412, T63.422, T63.432, T63.442, T63.452, T63.462, T63.482, T63.512, T63.592, T63.612, T63.622, T63.632, T63.692, T63.712, T63.792, T63.812, T63.822, T63.832, T63.892, T63.92, T64.02, T64.82, T65.0X2, T65.1X2, T65.212, T65.222, T65.292, T65.3X2, T65.4X2, T65.5X2, T65.6X2, T65.812, T65.822, T65.832, T65.892, T65.9, T71; 6471006; 82313006; 425104003; 55554002; 304594002; 287181000; 891003; 225444004; 44301001; 247650009; 53846008; 274228002; 225457007; 86849004; 287182007; 287190007; 248061004; 248062006; 102911000; 401206008; 401229000; 269725004; 287181000</p>
<p>CDC (Suspected) Suicide Attempt v1</p>	<p>Included chief complaints: Attempt (and excludes no attempt), or try or tried, or intentional (and not unintentional or accidental) in combination with the terms hang, kill, shoot, overdose, end life, or suicide.</p> <p>Excluded chief complaints: end of life; end of battery life; “denies” or “denied” or “no” in combination with the term self-harm; accident; homicide or homici; “denies” or “denied” or “no” or “not” in combination with the terms “any SI,” “current SI,” suicide or suic; current</p>	<p>E950-E959; T14.91; X71-X79; X80-X83; T36.0X2; T36.1X2; T36.2X2; T36.3X2; T36.4X2; T36.5X2; T36.6X2; T36.7X2; T36.8X2; T37.0X2; T37.1X2; T37.2X2; T37.3X2; T37.4X2; T37.5X2; T37.8X2; T37.92; T38.0X2; T38.1X2; T38.2X2; T38.3X2; T38.4X2; T38.5X2; T38.6X2; T38.7X2; T38.802; T38.812; T38.892; T38.902; T38.992; T39.012; T39.092; T39.1X2; T39.2X2; T39.312; T39.392; T39.4X2; T39.8X2; T39.92; T40.0X2; T40.1X2; T40.2X2; T40.3X2; T40.4X2; T40.5X2; T40.602; T40.692; T40.7X2; T40.8X2; T40.902; T40.992; T41.0X2; T41.1X2; T41.202; T41.292; T41.3X2; T41.42; T41.5X2; T42.0X2; T42.1X2; T42.2X2; T42.3X2; T42.4X2;</p>

	suicide or suic, any suicide or suic, or S/H, RT, or right SI.	<p>T42.5X2; T42.6X2; T42.72; T42.8X2; T43.012; T43.022; T43.1X2; T43.202; T43.212; T43.222; T43.292; T43.3X2; T43.4X2; T43.502; T43.592; T43.602; T43.612; T43.622; T43.632; T43.642; T43.692; T43.8X2; T43.92; T44.0X2; T44.1X2; T44.2X2; T44.3X2; T44.4X2; T44.5X2; T44.6X2; T44.7X2; T44.8X2; T44.902; T44.992; T45.0X2; T45.1X2; T45.2X2; T45.3X2; T45.4X2; T45.512; T45.522; T45.602; T45.612; T45.622; T45.692; T45.7X2; T45.8X2; T45.92; T46.0X2; T46.1X2; T46.2X2; T46.3X2; T46.4X2; T46.5X2; T46.6X2; T46.7X2; T46.8X2; T46.902; T46.992; T47.0X2; T47.1X2; T47.2X2; T47.3X2; T47.4X2; T47.5X2; T47.6X2; T47.7X2; T47.8X2; T47.92; T48.0X2; T48.1X2; T48.202; T48.292; T48.3X2; T48.4X2; T48.5X2; T48.6X2; T48.902; T48.992; T49.0X2; T49.1X2; T49.2X2; T49.3X2; T49.4X2; T49.5X2; T49.6X2; T49.7X2; T49.8X2; T49.92; T50.1X2; T50.2X2; T50.3X2; T50.4X2; T50.5X2; T50.6X2; T50.7X2; T50.8X2; T50.A12; T50.A22; T50.A92; T50.B12; T50.B92; T50.Z12; T50.Z92; T50.902; T50.992; T51.0X2; T51.1X2; T51.2X2; T51.3X2; T51.8X2; T51.92; T52.0X2; T52.1X2; T52.2X2; T52.3X2; T52.4X2; T52.8X2; T52.92; T53.0X2; T53.1X2; T53.2X2; T53.3X2; T53.4X2; T53.5X2; T53.6X2; T53.7X2; T53.92; T54.0X2; T54.1X2; T54.2X2; T54.3X2; T54.92; T55.0X2; T55.1X2; T56.0X2; T56.1X2; T56.2X2; T56.3X2; T56.4X2; T56.5X2; T56.6X2; T56.7X2; T56.812; T56.892; T56.92; T57.0X2; T57.1X2; T57.2X2; T57.3X2; T57.8X2; T57.92; T58.02; T58.12; T58.2X2; T58.8X2; T58.92; T59.0X2; T59.1X2; T59.2X2; T59.3X2; T59.4X2; T59.5X2; T59.6X2; T59.7X2; T59.812; T59.892; T59.92; T60.0X2; T60.1X2; T60.2X2; T60.3X2; T60.4X2; T60.8X2; T60.92; T61.02; T61.12; T61.772; T61.782; T61.8X2; T61.92; T62.0X2; T62.1X2; T62.2X2; T62.8X2; T62.92; T63.002; T63.012; T63.022; T63.032; T63.042; T63.062; T63.072; T63.082; T63.092; T63.112; T63.122; T63.192; T63.2X2; T63.302; T63.312; T63.322; T63.332; T63.392; T63.412; T63.422; T63.432; T63.442; T63.452; T63.462; T63.482; T63.512; T63.592; T63.612; T63.622; T63.632; T63.692; T63.712; T63.792; T63.812; T63.822; T63.832; T63.892; T63.92; T64.02; T64.82; T65.0X2; T65.1X2; T65.212; T65.222; T65.292; T65.3X2; T65.4X2; T65.5X2; T65.6X2; T65.812; T65.822; T65.832; T65.892; T65.9; 82313006; 55554002; 287181000; 891003; 44301001; 53846008; 274228002; 86849004; 287182007; 287190007; 269725004; 287181000; 460991000124106; 59274003</p>
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All Drug and Opioid-Involved Overdose Definitions[§]		
Definition	Chief Complaint Search Terms	Diagnosis Codes
CDC All Drug Overdose v2	Included: Naloxone; Narcan; Evzio; Overdose Overdose terms -- include only if another drug-related term is present and there are no exclusion terms: poisoning; poison; nodding off; snort; ingestion; ingest; inject; intoxication; intoxic;	960-979; E850-E858; E980.0-E980.9. T36-T50; where the sixth character is a 1 or 4 (e.g.; T40.1X1A). Exceptions are needed for T36.9; T37.9; T39.9; T41.4; T42.7; T43.9; T45.9; T47.9; and T49.9; which were included if the code has a fifth character of 1 or 4 (e.g.; T36.91XA). Only codes that include "A" (initial

	<p>unresponsive; unresponsiv; loss of consciousness; syncopy; syncope; shortness of breath; SOB; short of breath; altered mental status; AMS.</p> <p>Drug-related terms – include only if other overdose-related terms are present and no exclusion terms: Drug; pill; poly drug/substance stimulants (e.g.; cocaine; amphetamine; methamphetamine); benzodiazepines (e.g.; Alprazolam; Clonazepam; Diazepam; Lorazepam; Xanax); hallucinogens (e.g.; phencyclidine [PCP]; MDMA; ecstasy; lysergic acid diethylamide [LSD]); opioids (e.g.; buprenorphine; codeine; fentanyl; heroin; hydrocodone; hydromorphone; methadone; morphine; oxycodone; oxymorphone; kratom; loperamide); Marijuana; cannabinoids and synthetic cannabinoids; Cathinones or bath; ketamine; gabapentin; gamma hydroxybutyrate (GHB); sleep sedatives. For a full list of brand names and slang terms also included; visit: CDC All Drug Overdose version 2 Fact Sheet.</p> <p>For a full list of exclusions; visit: CDC All Drug Overdose version 2 Fact Sheet.</p>	<p>encounter) as the final character are included. F11.12; F11.120; F11.121; F11.122; F11.129; F11.22; F11.220; F11.221; F11.222; F11.229; F11.92; F11.920; F11.921; F11.922; F11.929; 295121001; 295597003; 295487009; 295334008; 295313001; 295593004; 295799003; 295117008; 295495008; 295332007; 295808006; 295123003; 295587007; 295314007; 295134000; 295910009; 296295001; 296412004; 296529003; 296334003; 296921006; 296513006; 296389000; 296845006; 296499009; 296922004; 296825003; 296943003; 296896008; 296853003; 296974001; 296450005; 296478006; 296402006; 296970005; 296509004; 296503003; 296425007; 296811004; 296948007; 297006008; 297094003; 297065005; Include the following codes if an overdose term is also present and there are no exclusion terms: F11.10; F11.90; F11.20</p>
<p>CDC Opioid Overdose v3</p>	<p>Included: Naloxone; Narcan; Evzio</p> <p>Include if there is a combination of at least one of the following overdose terms and at least one drug term is also present:</p> <p>Overdose term: overdose; poisoning; poison; nodding off; snort; ingestion; ingest; inject; intoxication; intoxic; unresponsive; unresponsiv; loss of consciousness; syncopy; syncope; shortness of breath; SOB; short of breath; altered mental status; AMS.</p> <p>Drug term: opioid; opiod; opoid; opiate; opate; opium; opium; opum; heroin; herion; heroine; HOD; speed ball; speedball; dope; methadone; suboxone; oxyco; oxy; oxyi; percoc; vicod; fent; hydrocod; morphin; codeine; codiene; codene; oxymor; dilaud; hydromor; tramad; suboxin; buprenorphine; and other common opioid brand and generic names</p> <p>For a full list of exclusions; visit: CDC Opioid Overdose v3 Fact Sheet.</p>	<p>965.00; 965.01; 965.02; 965.09; E850.0; E850.1; E850.2; T40.1X1A; T40.1X4A; T40.0X1A; T40.0X4A; T40.2X1A; T40.2X4A; T40.3X1A; T40.3X4A; T40.4X1A; T40.4X4A; T40.411A; T40.414A; T40.421A; T40.424A; T40.491A; T40.494A; T40.601A; T40.604A; T40.691A; T40.694A; F11.12; F11.120; F11.121; F11.122; F11.129; F11.22; F11.220; F11.221; F11.222; F11.229; F11.92; F11.920; F11.921; F11.922; F11.929; 295174006; 295175007; 295176008; 295165009; 242253008; 297199006; 295213004; Include the following codes if an overdose term is also present: F11.10; F11.90; F11.20</p>

* The purpose of these keyword syndromes is to identify visits among persons who experienced MHCs, including specific disorders, in emergency departments and ambulatory healthcare settings. These definitions use *International Classification of Diseases, Ninth Revision, Clinical Modification* codes (ICD-9-CM), *International Classification of Diseases, Tenth Revision, Clinical Modification* codes (ICD-10-CM), Systematized Nomenclature of Medicine (SNOMED) codes, and free text reason for visit (chief complaint terms). Definitions for MHCs include visits with acute mental health crises (i.e., the sole or primary reason for the visit is only related to mental health) as

well as visits where MHCs are present (defined as coded in the discharge diagnosis or mentioned in the chief complaint text) but may not be the sole reason for the visit. Codes related to mental disorders that are non-specific to mental health, for example, related to substance use, developmental disabilities, or dementia, were excluded. Codes for MHCs were further classified into the categories based on previous literature and with expert judgement from a team of scientists with cross-cutting expertise in mental disorders – including a practicing psychiatrist – based on best alignment with the Diagnostic and Statistical Manual of Mental Disorders, version 5 (DSM-5). For individual MHCs where the sample size in national syndromic surveillance data was too small to meaningfully include an individual keyword syndrome, codes were placed in the “Overall Mental Health Conditions” definition (e.g., reactive attachment disorder). Terms and codes that were non-specific and unable to differentiate between specific MHCs (e.g., psychosis; hallucinations) were also included in the “Overall Mental Health Conditions” but not specific individual disorder syndromes to improve syndrome specificity. Common misspellings of chief complaint terms were also included. Non-decimal versions of all discharge diagnosis codes were also included.

† This analysis includes two syndrome definitions capturing ED visits involving suicidal behaviors. [SDC Suicide-Related v1](#): The first is a broad syndrome definition that captures keywords and discharge diagnosis codes for self-harm, suicidal ideation, and suspected suicide attempt (noted as “suicide-related behaviors” in the analysis). This query was created as a collaboration between the National Syndromic Surveillance Program Syndrome Definition subcommittee with input from CDC’s National Center for Injury Prevention and Control. This query was meant to be run on chief complaint history, admission reason combination, and discharge diagnosis fields.

[CDC Suicide Attempt v1](#): The second is a narrower syndrome definition that captures keywords and discharge diagnosis codes for suspected suicide attempts, or self-directed and potentially injurious behavior with any intent to die as a result. This query was created by CDC’s National Center for Injury Prevention and Control in partnership with state and local health departments. This query was meant to be run on chief complaint history, admission reason combination, and discharge diagnosis fields.

§ This analysis includes two syndrome definitions capturing ED visits involving drug overdoses: [CDC All Drug Overdose v2](#): The first is a broad syndrome definition that captures keywords and discharge diagnosis codes for suspected overdoses of any drug (noted as “drug overdose” in the analysis). The definition was developed to be inclusive of overdoses including all drug types; not specifically those that may be illicit versus prescription. CDC scientists started developing the definition using guidance from the U.S. Drug Enforcement Administration; Council of State and Territorial Epidemiologists; and the Substance Abuse and Mental Health Services Administration. First, ICD-10-CM, ICD-9-CM, and SNOMED diagnosis codes indicating an acute drug poisoning were identified; this was followed by overdose terms in the chief complaint text. Finally, drug terms indicating that any type of drug was involved in the overdose were added. For more information, please visit: [CDC All Drug Overdose version 2 Fact Sheet](#).

[CDC Opioid Overdose v3](#): The second is a narrower syndrome definition that captures keywords and discharge diagnosis codes for suspected overdoses involving opioids (noted as “opioid-involved overdose” in the analysis). CDC scientists first started developing this definition using lessons learned from funded programs and researching other guidance documents from other sources such as the National Center for Health Statistics; the Council of State and Territorial Epidemiologists; and the Substance Abuse and Mental Health Services Administration. ICD-10-CM, ICD-9-CM, and SNOMED diagnosis codes indicating an acute opioid poisoning were identified; this was followed by identifying and adding overdose terms that could be presented in the chief complaint text. Finally, opioid drug terms indicating that an opioid was involved in the overdose were added. For more information, please visit: [CDC Opioid Overdose version 3 Fact Sheet](#).